

***LineUp With Math™* Alignment**
Sunshine State Standards, Benchmarks, and Grade Level Expectations
Mathematics

Strand A. Number Sense, Concepts, and Operations

Standard 4: The student uses estimation in problem solving and computation.

Benchmark MA.A.4.2.1: The student uses and justifies different estimation strategies in a real-world problem situation and determines the reasonableness of results of calculations in a given problem situation.

Grade Level Expectations: Fifth

The student:

1. chooses, describes, and explains estimation strategies used to determine the reasonableness of solutions to real-world problems.

***LineUp With Math™* Activities**

--Choose and apply a variety of strategies to optimize the solution of air traffic control conflicts.

--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.

Strand B. Measurement

Standard 1: The student measures quantities in the real world and uses the measures to solve problems.

Benchmark MA.B.1.2.2: The student solves real-world problems involving length, weight, perimeter, area, capacity, volume, time, temperature, and angles.

Grade Level Expectations: Fifth

The student:

1. solves real-world problems involving measurement of the following:
 - length (for example, eighth-inch, kilometer, mile)
 - weight or mass (for example, milligram, ton)
 - temperature (comparing temperature changes within the same scale using either a Fahrenheit or a Celsius thermometer)
 - angles (acute, obtuse, straight)
3. uses schedules, calendars, and elapsed time to solve real-world problems.

***LineUp With Math™* Activities**

--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

Standard 3: The student estimates measurements in real-world problem situations.

Benchmark MA.B.3.2.1: The student solves real-world problems involving estimates of measurements, including length, time, weight, temperature, money, perimeter, area, and volume.

Grade Level Expectations: Fifth

The student:

2. solves real-world problems involving estimated measurements, including the following:
 - length to nearest quarter-inch, centimeter
 - weight to nearest ounce, gram
 - time to nearest one-minute interval
 - temperature to nearest five-degree interval
 - money to nearest \$1.00

***LineUp With Math™* Activities**

--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.

Strand D. Algebraic Thinking

Standard 2: The student uses expressions, equations, inequalities, graphs, and formulas to represent and interpret situations.

Benchmark MA.D.2.2.2: The student uses informal methods, such as physical models and graphs to solve real-world problems involving equations and inequalities.

Grade Level Expectations: Fifth

The student:

2. uses information from concrete or pictorial models or graphs to solve problems.

LineUp With Math™ Activities

--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.